

FIG.1

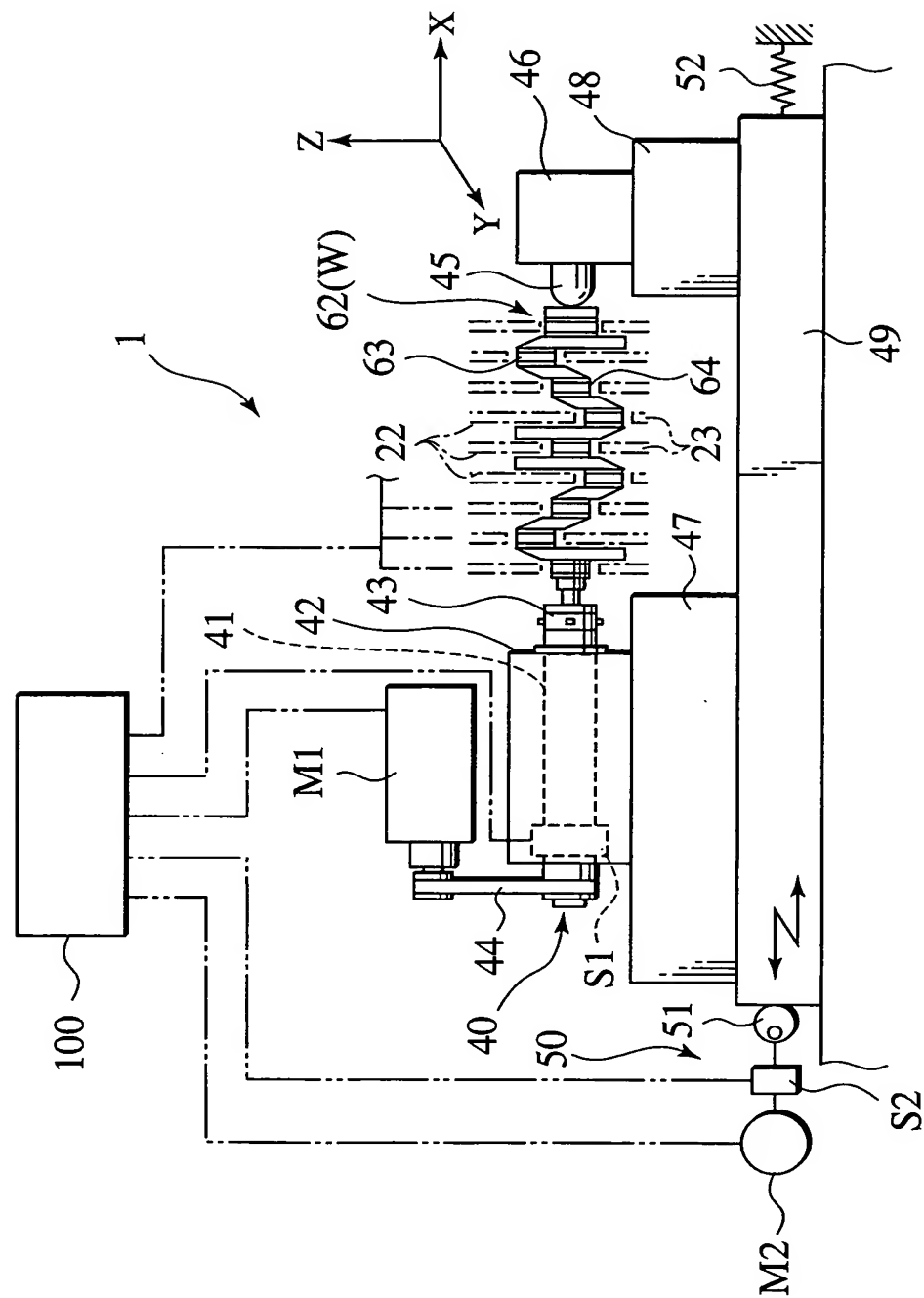


FIG.2

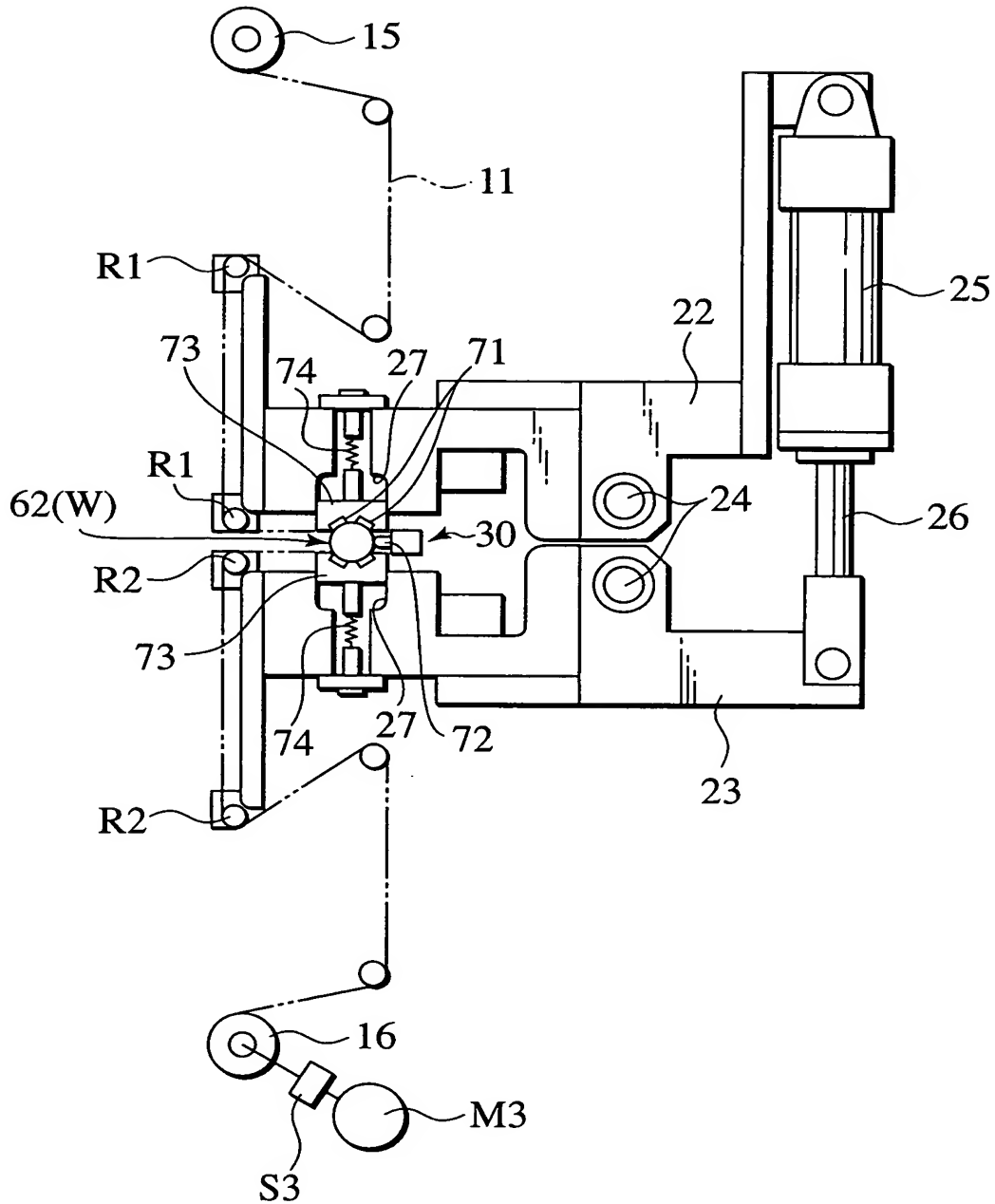


FIG.3

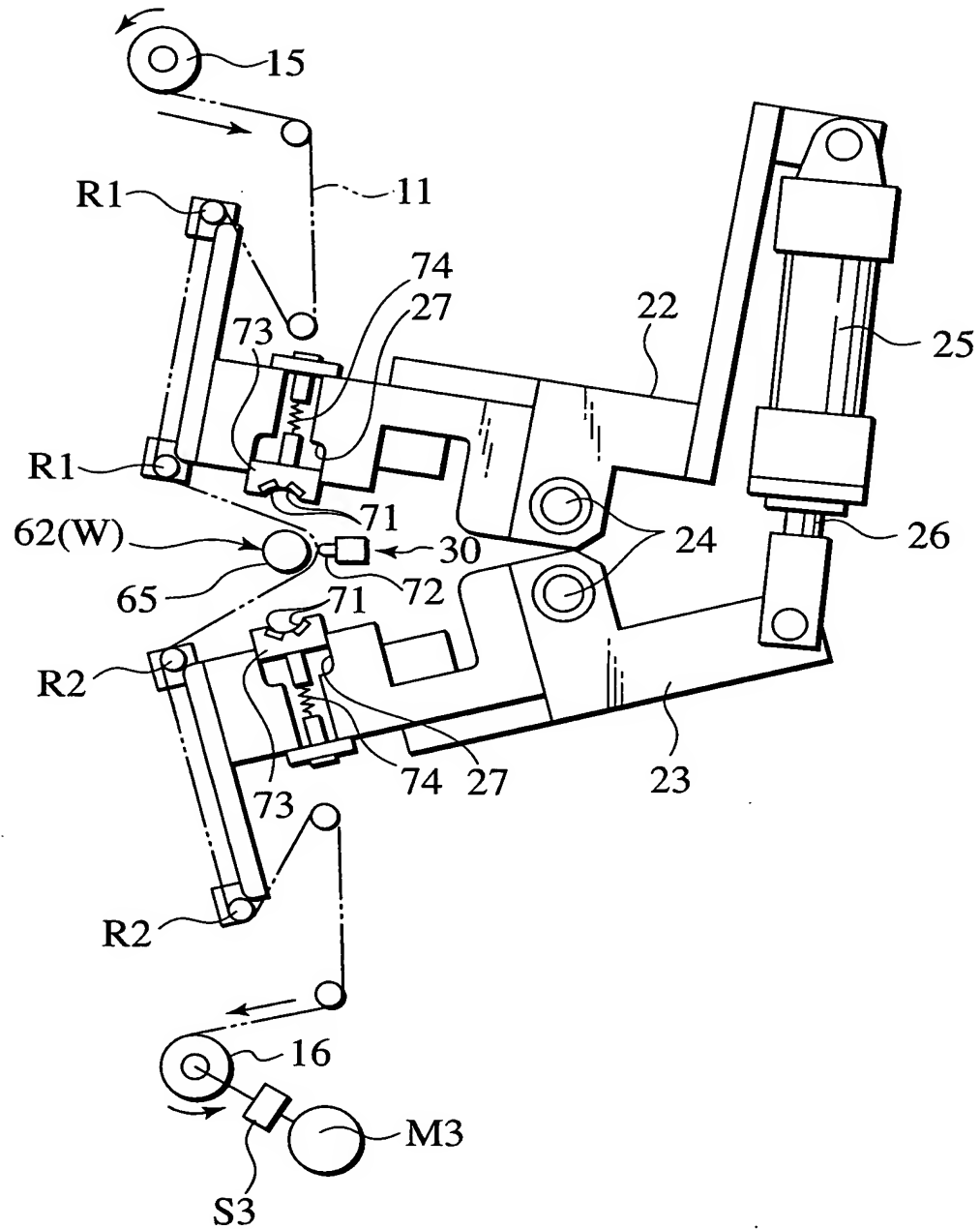


FIG.4A

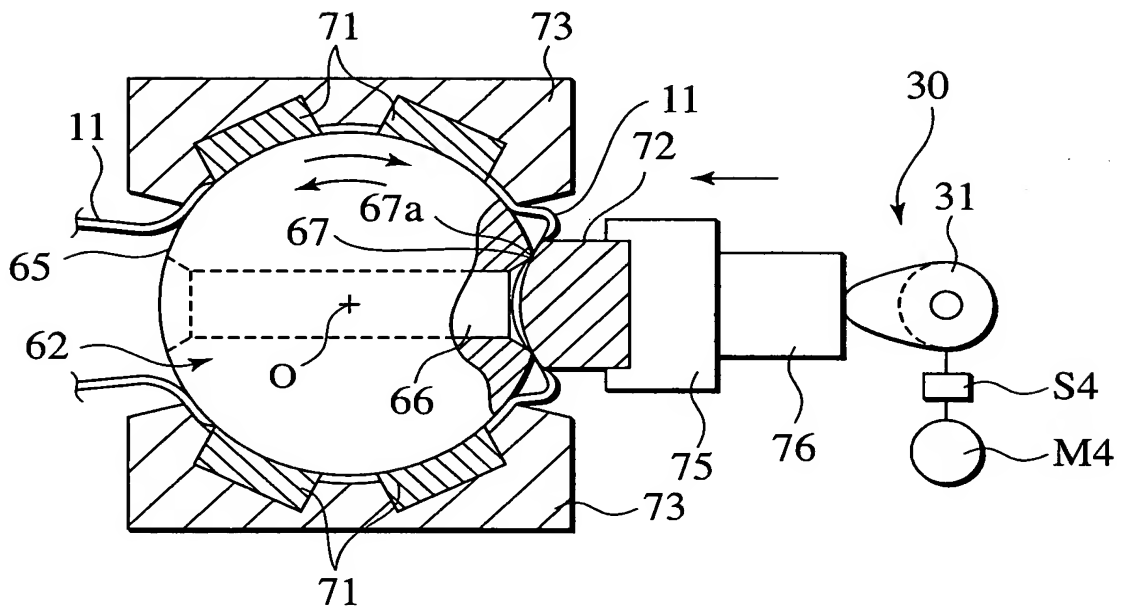
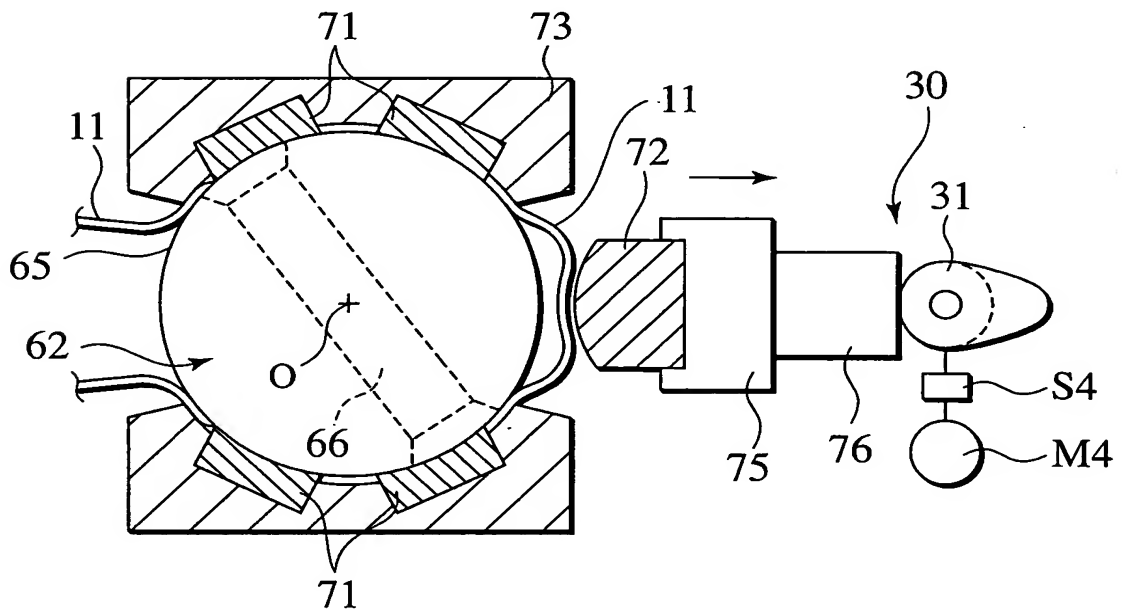


FIG.4B



5/22

FIG.5A

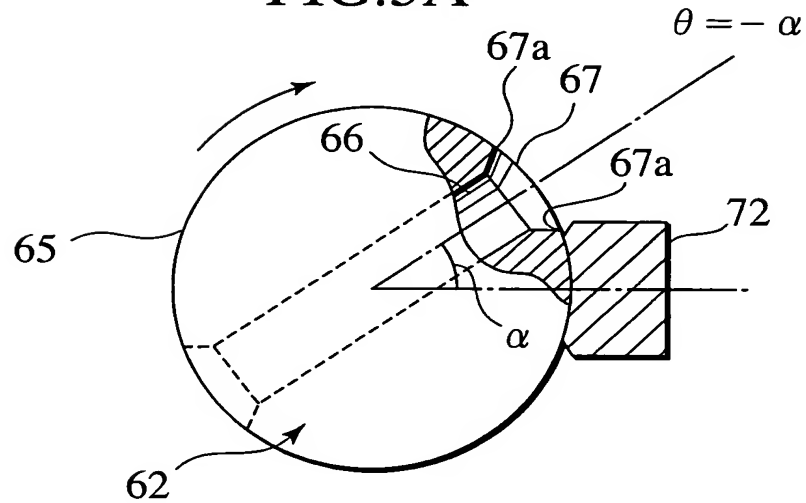


FIG.5B

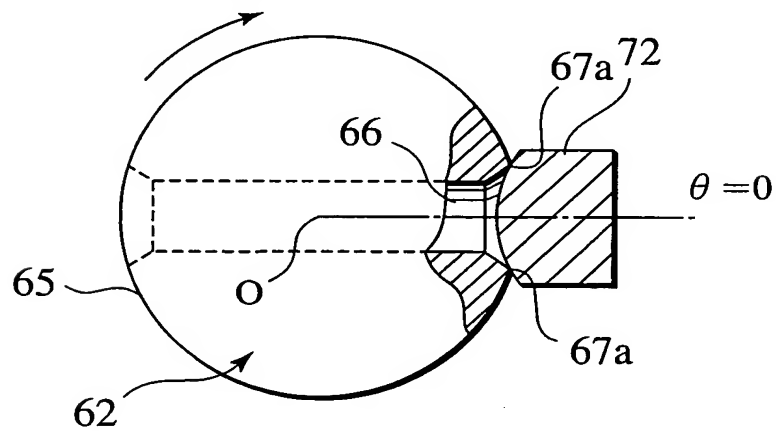
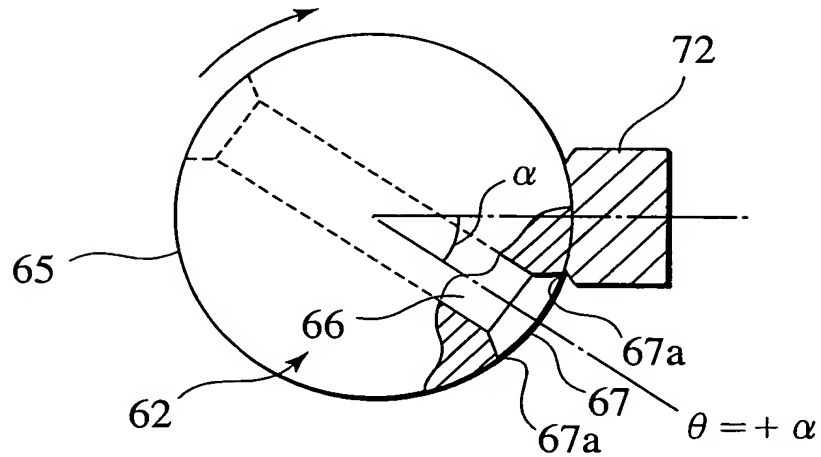


FIG.5C



6/22

FIG.6A

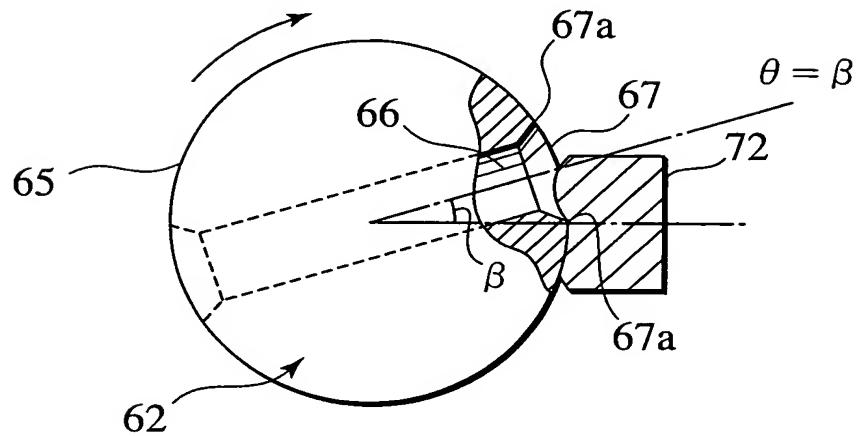


FIG.6B

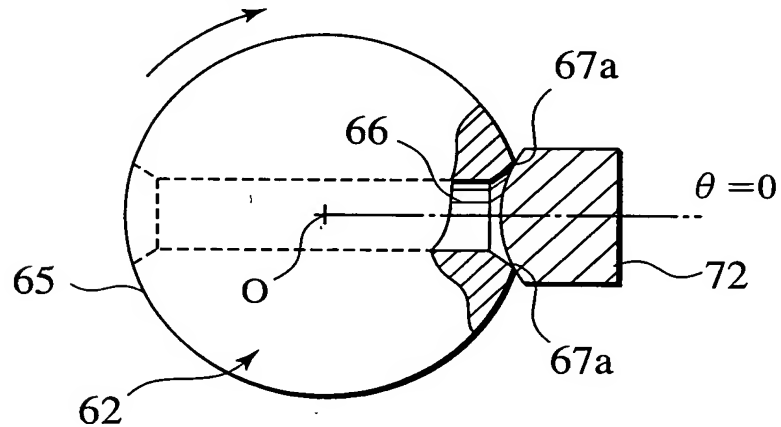
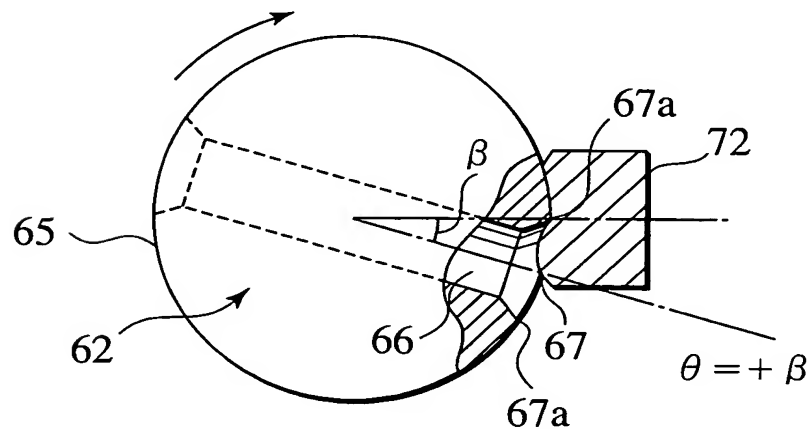


FIG.6C



7/22

FIG.7A

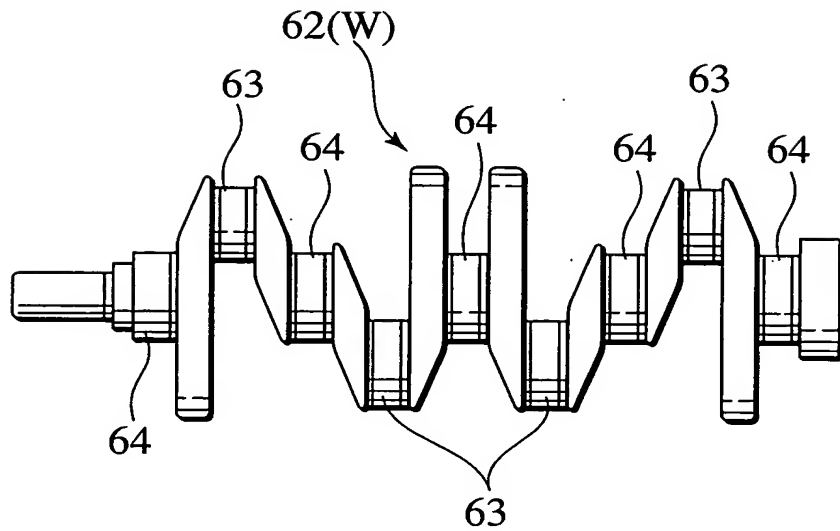


FIG.7B

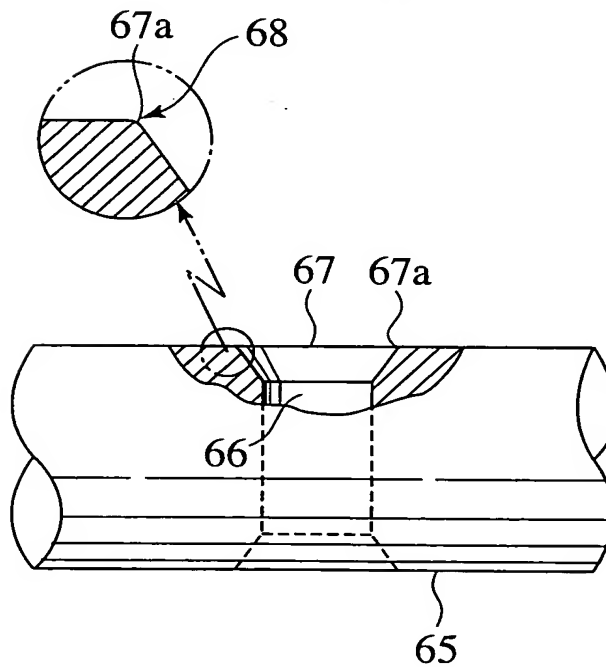


Figure 1 is a schematic diagram of a control system for a rotary device. The top part is a cross-sectional view of a device with a central shaft (66) and a housing (67). The housing has four segments (71) and a flange (72). A motor (40) is connected to the shaft. A rotary encoder (S1) is connected to the housing. The bottom part is a block diagram of the control system (100). It includes a central 'CONTROLLER' block. Four 'ROTARY ENCODER' blocks (S1, S2, S3, S4) are connected to the controller. Four 'MOTOR' blocks (M1, M2, M3, M4) are also connected to the controller. The motors are grouped into three dashed boxes labeled 40, 50, and 30.



9/22

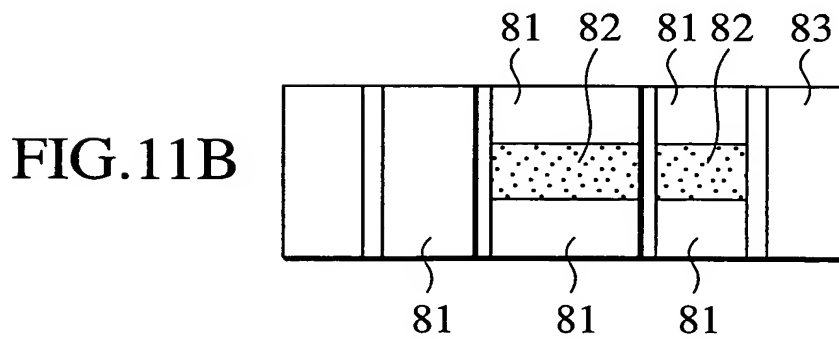
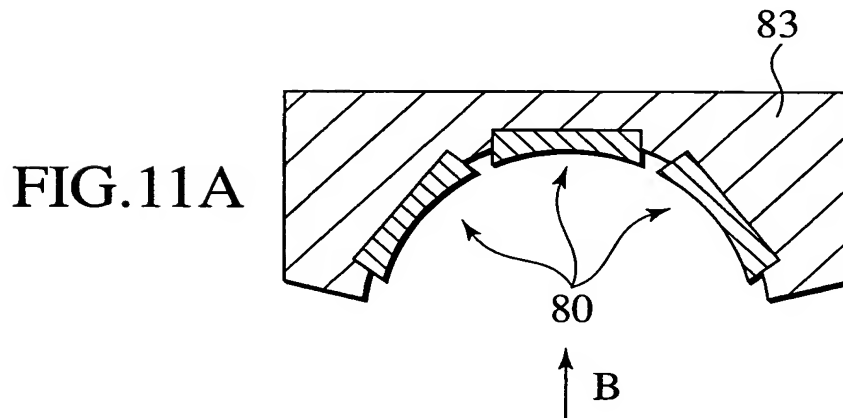
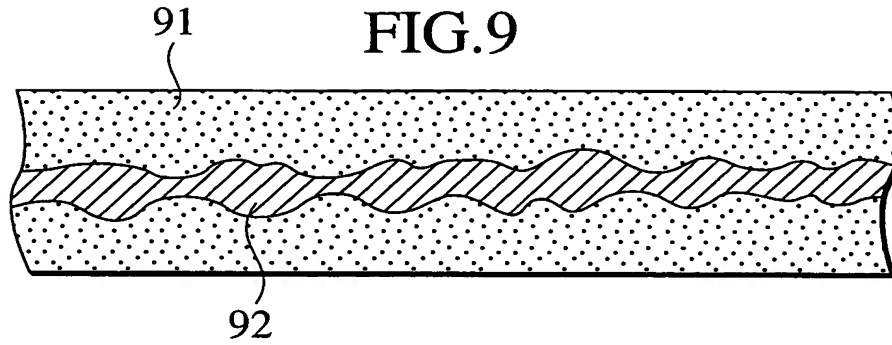


FIG. 10

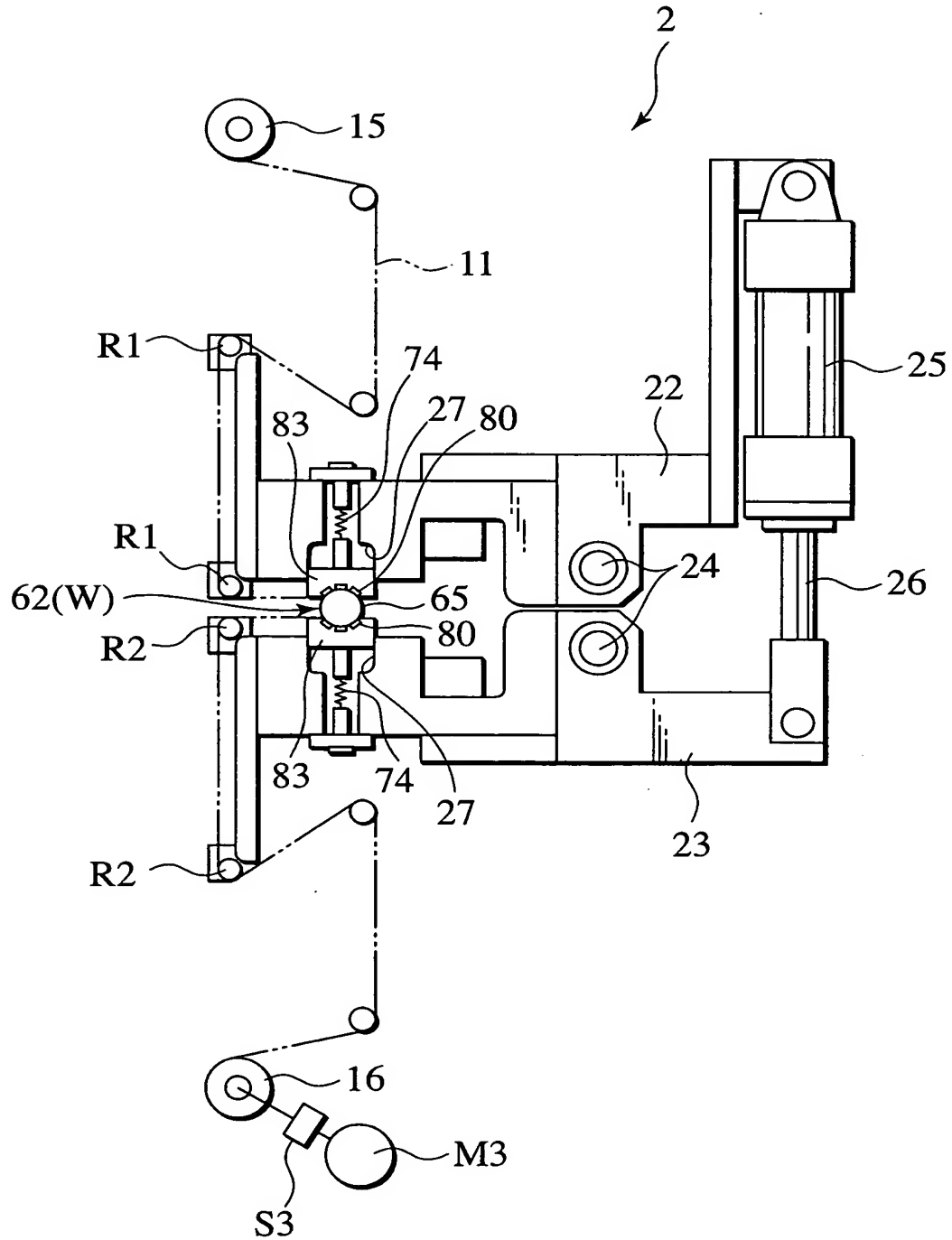


FIG.12

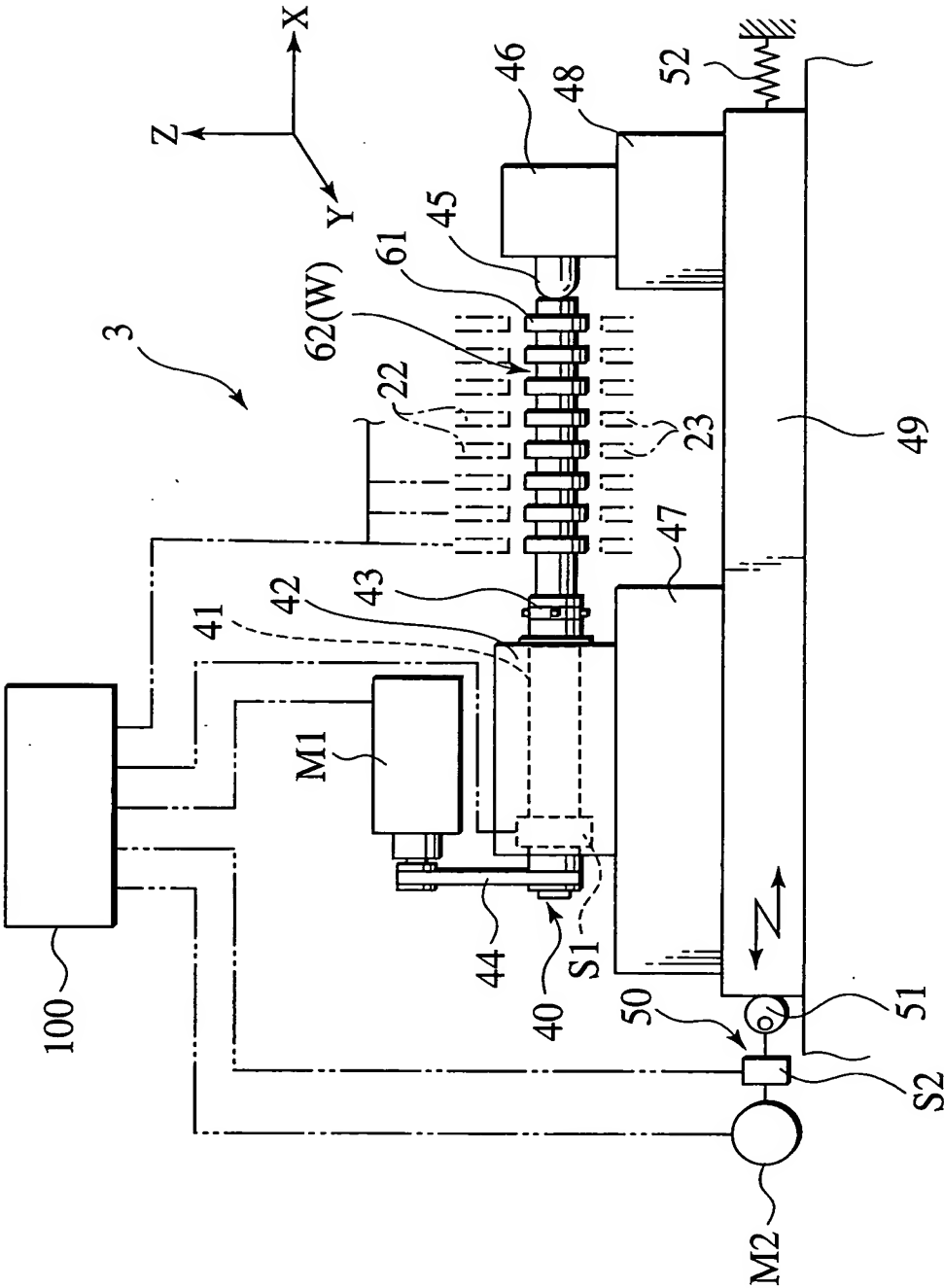


FIG.13

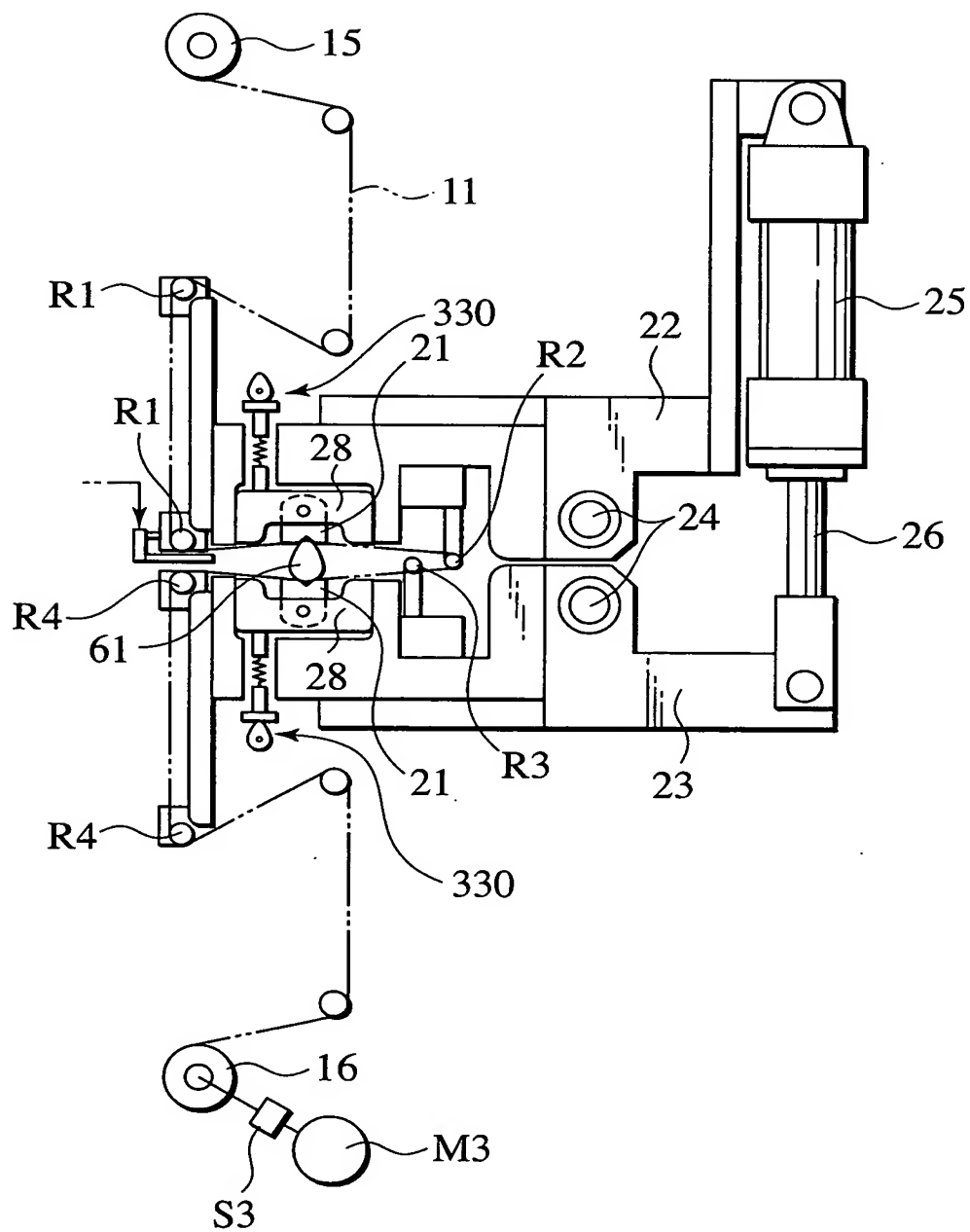
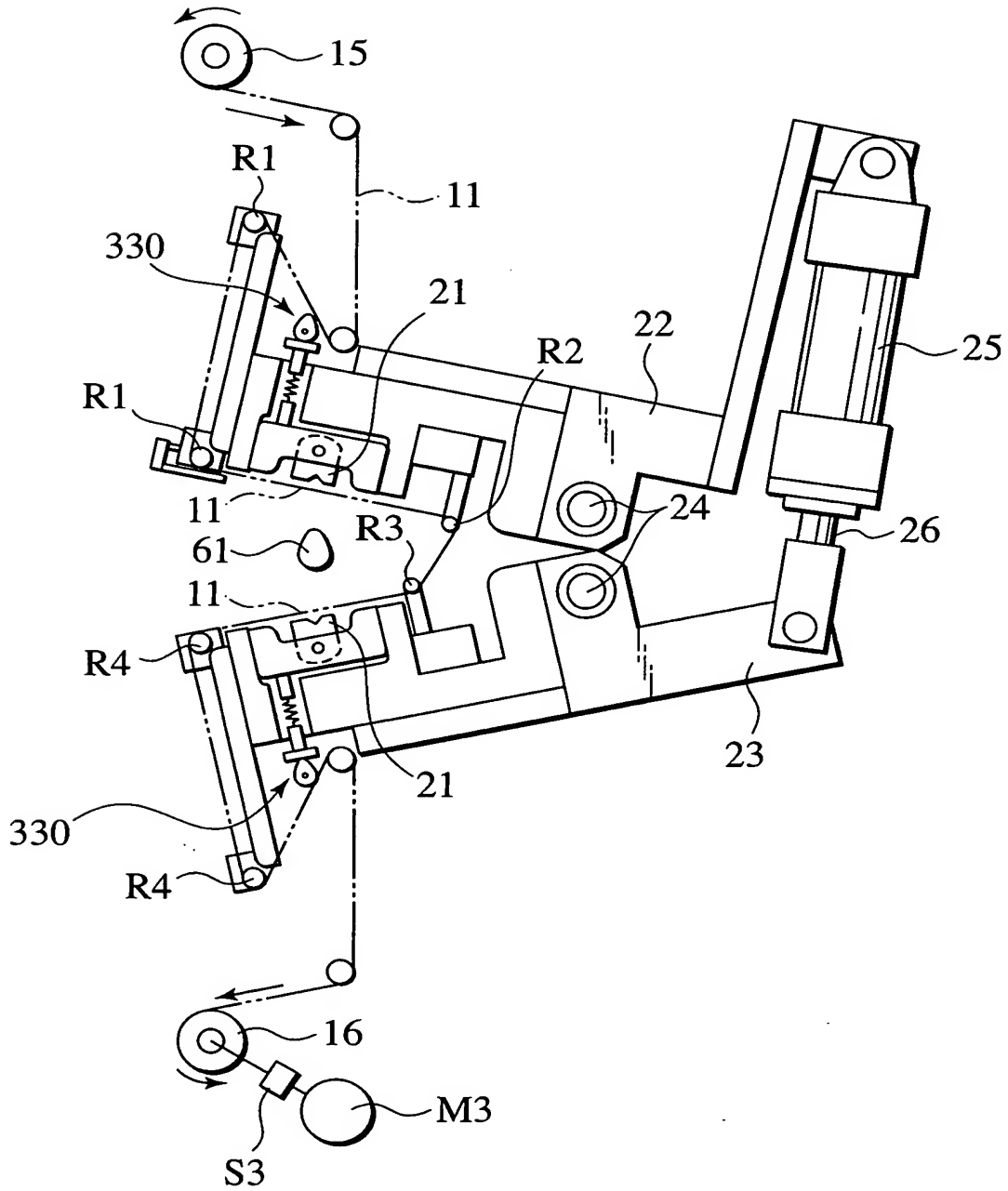
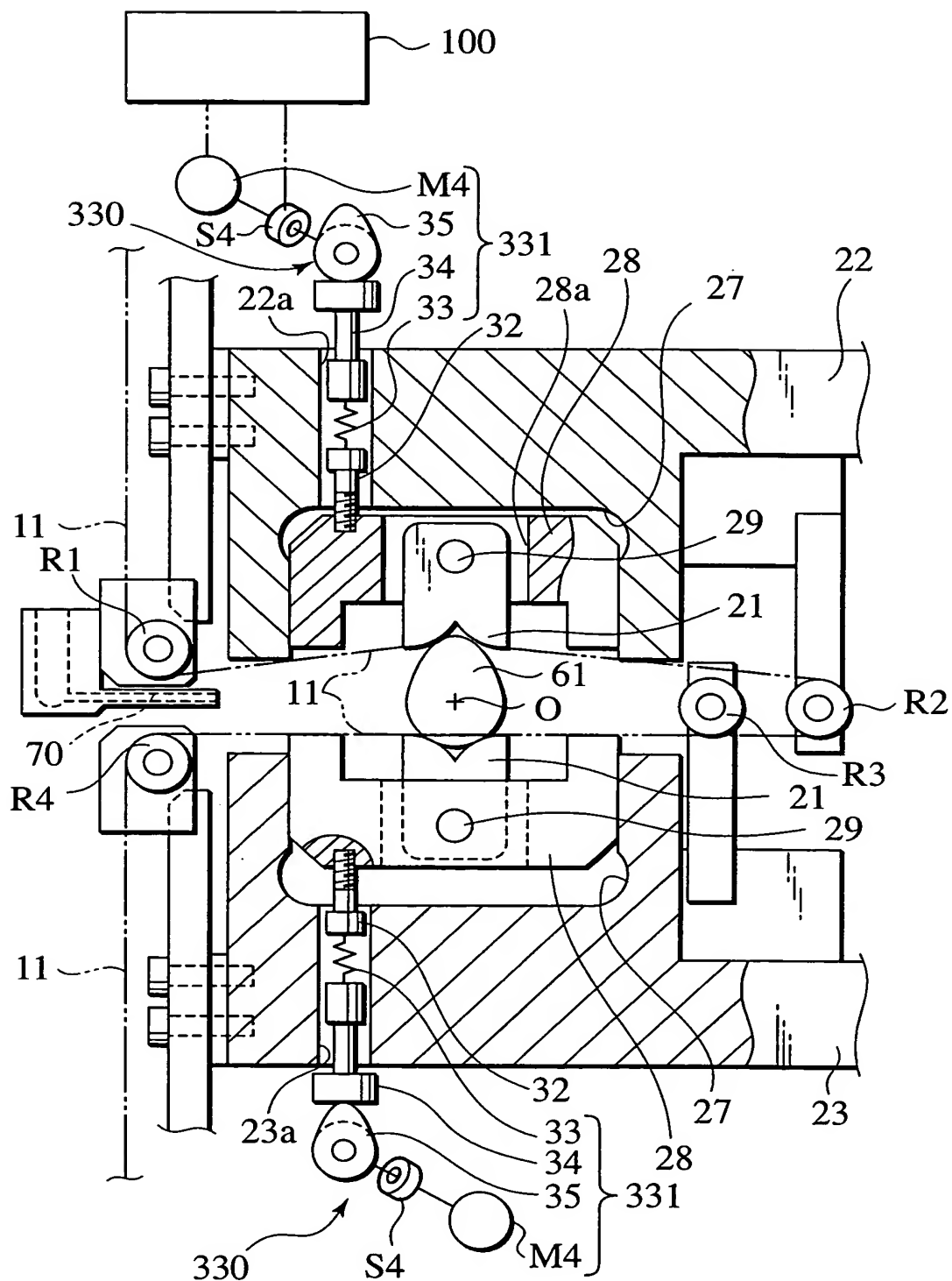


FIG.14



14/22

FIG.15



15/22

FIG.16

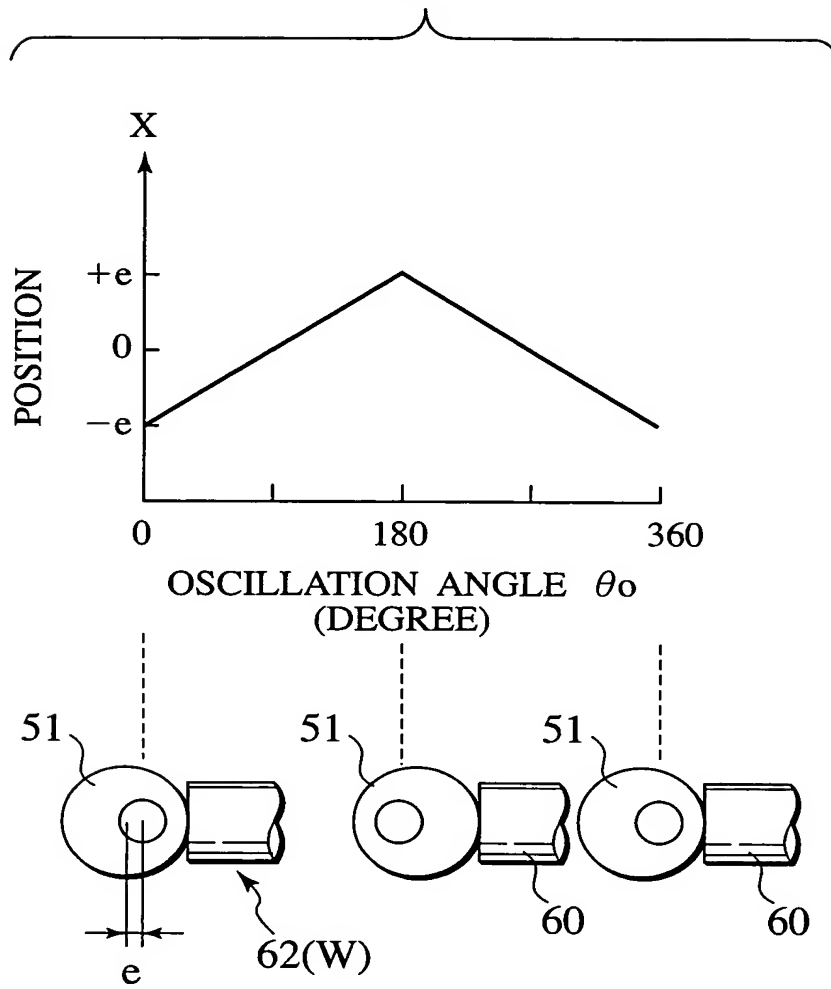
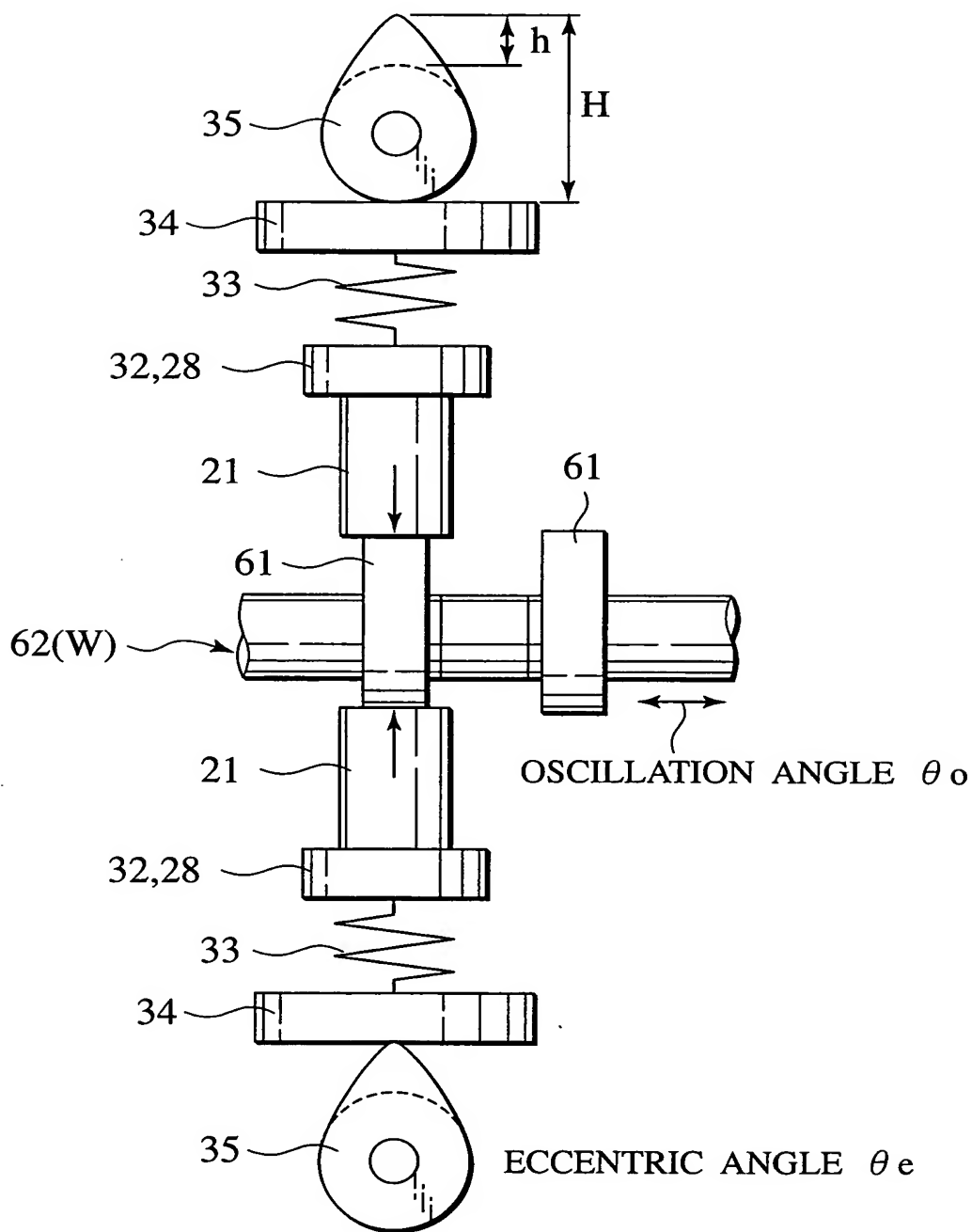


FIG. 17





17/22

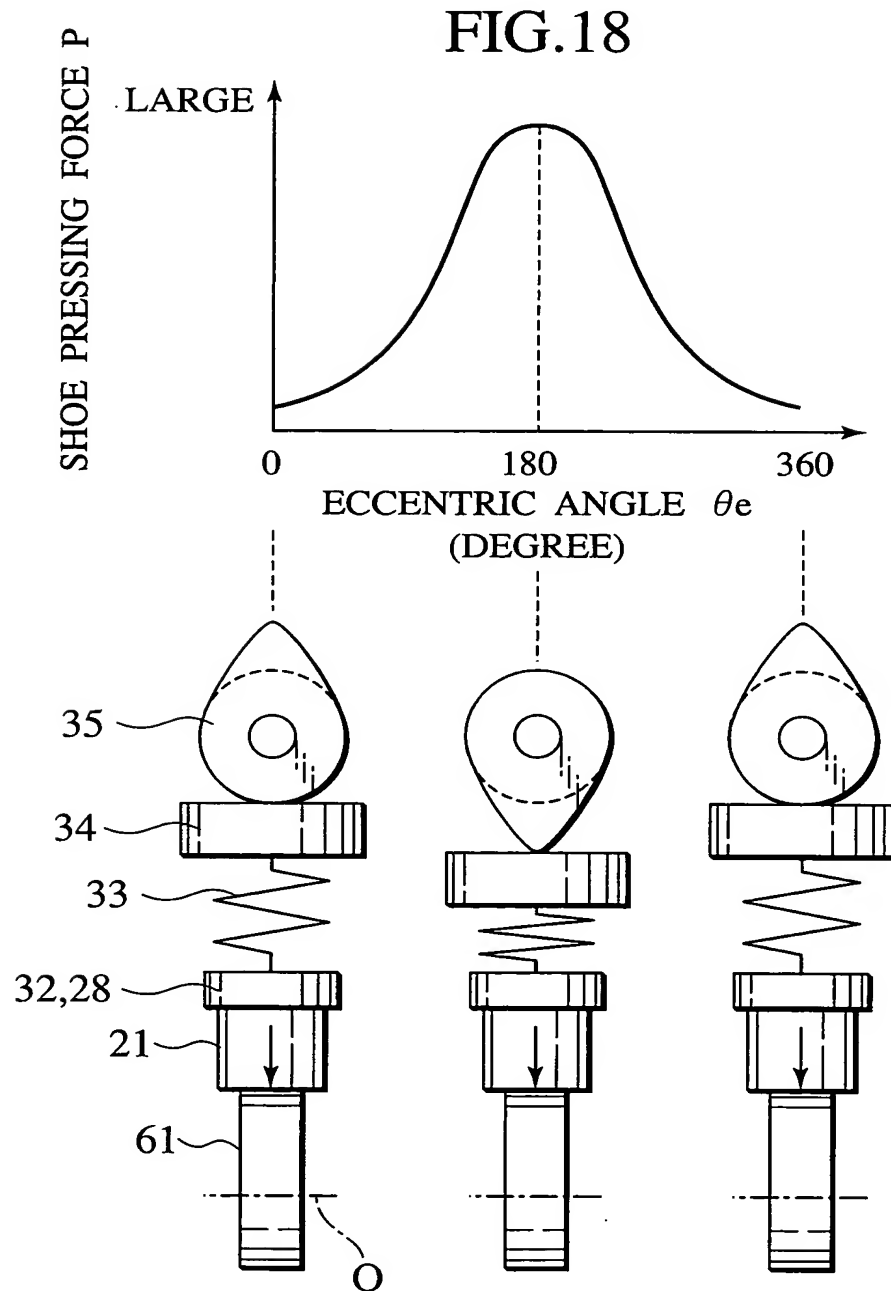


FIG.19A

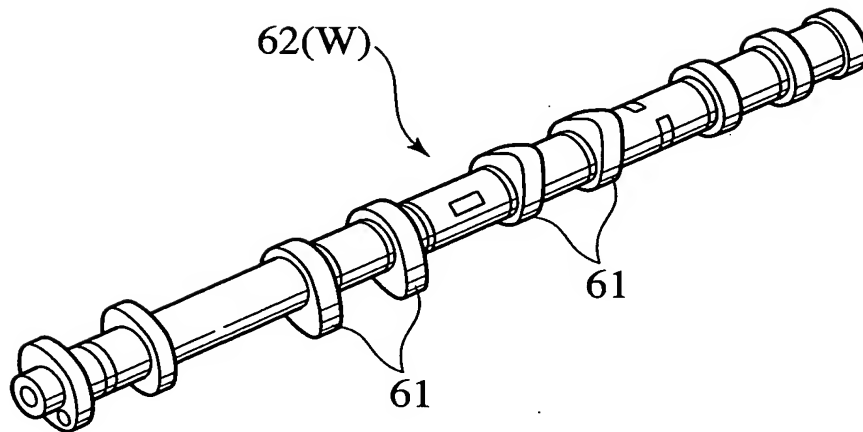
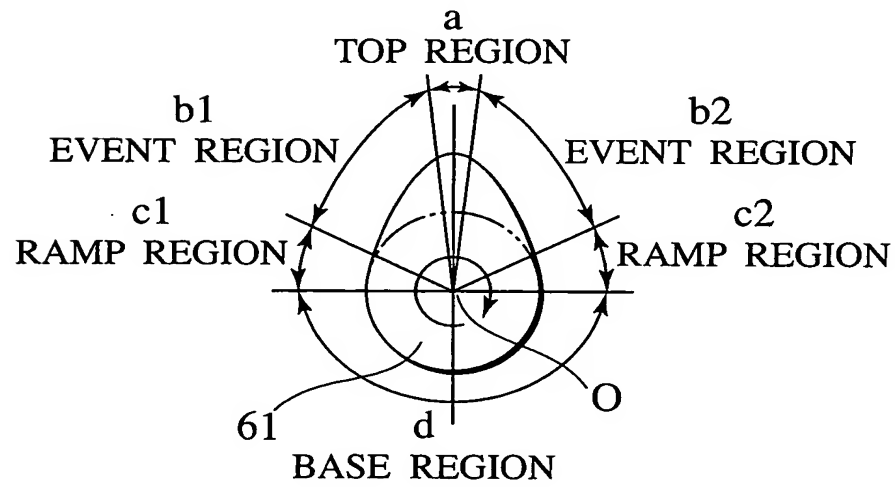


FIG.19B



19/22

FIG.20A

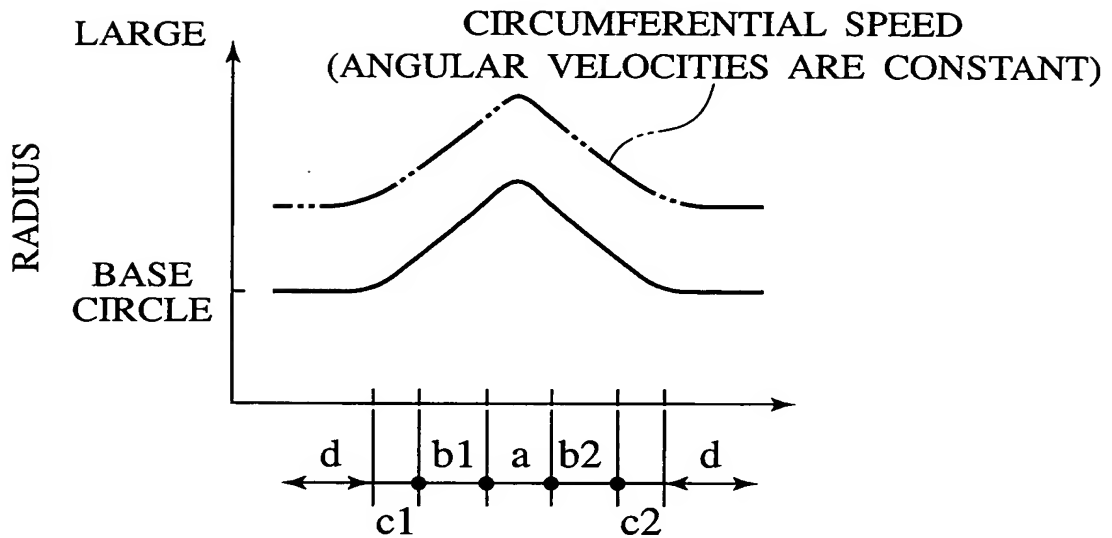


FIG.20B

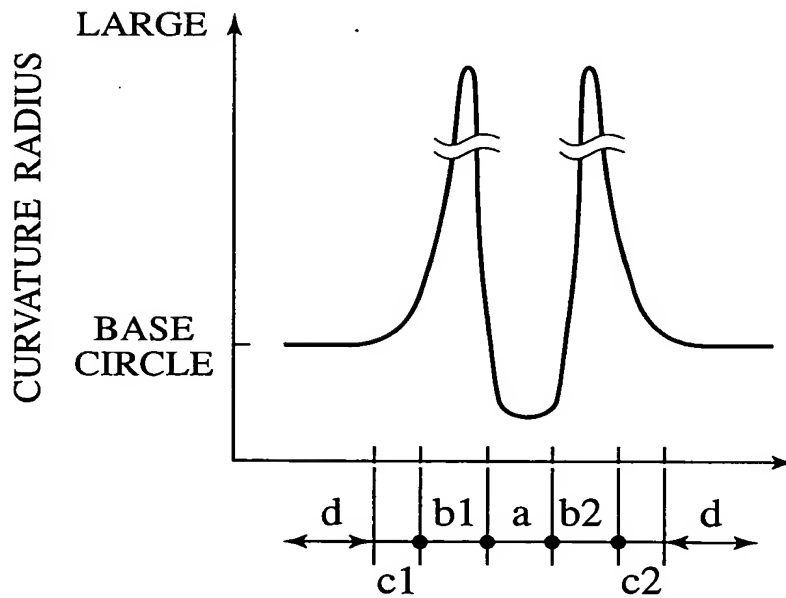


FIG.21

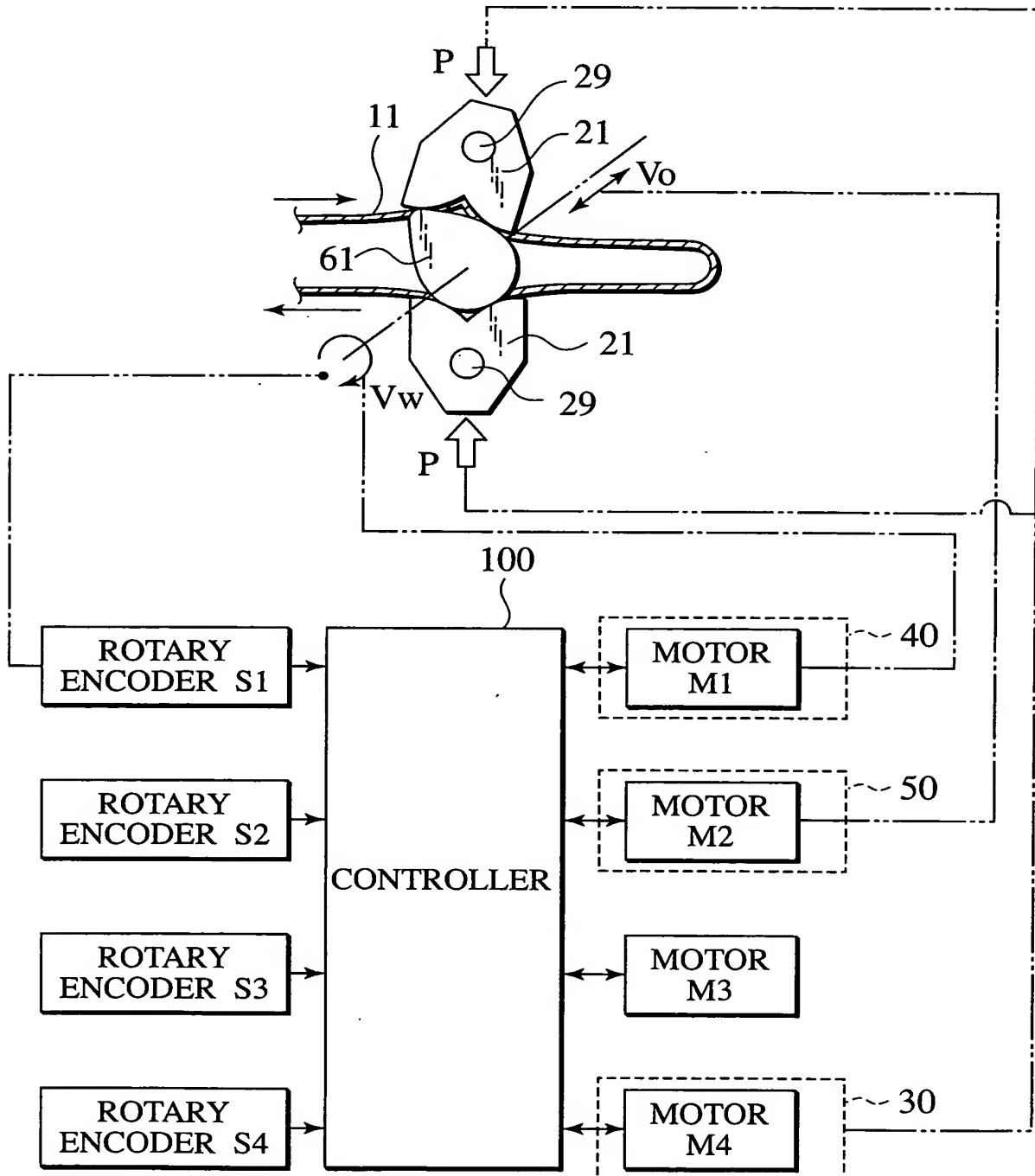


FIG.22A

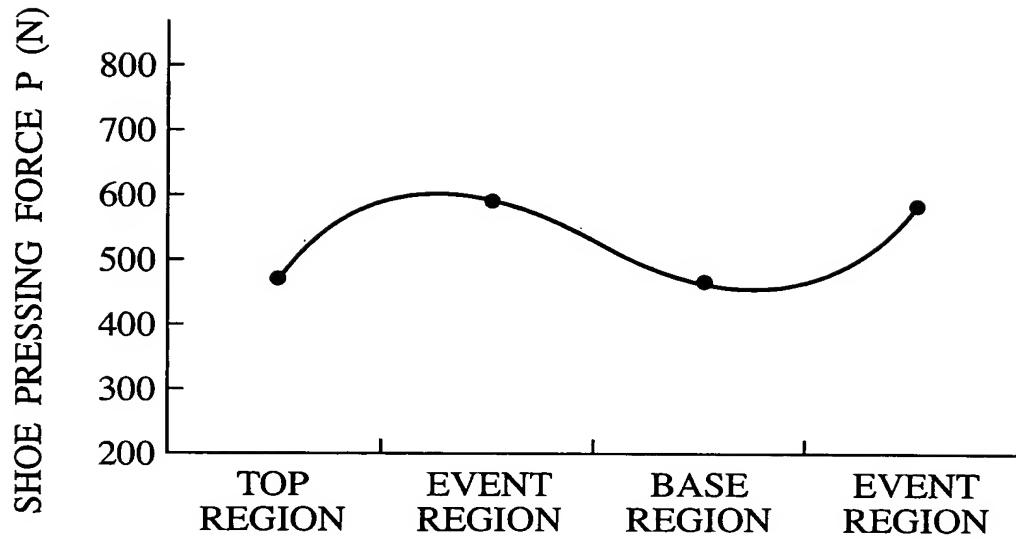
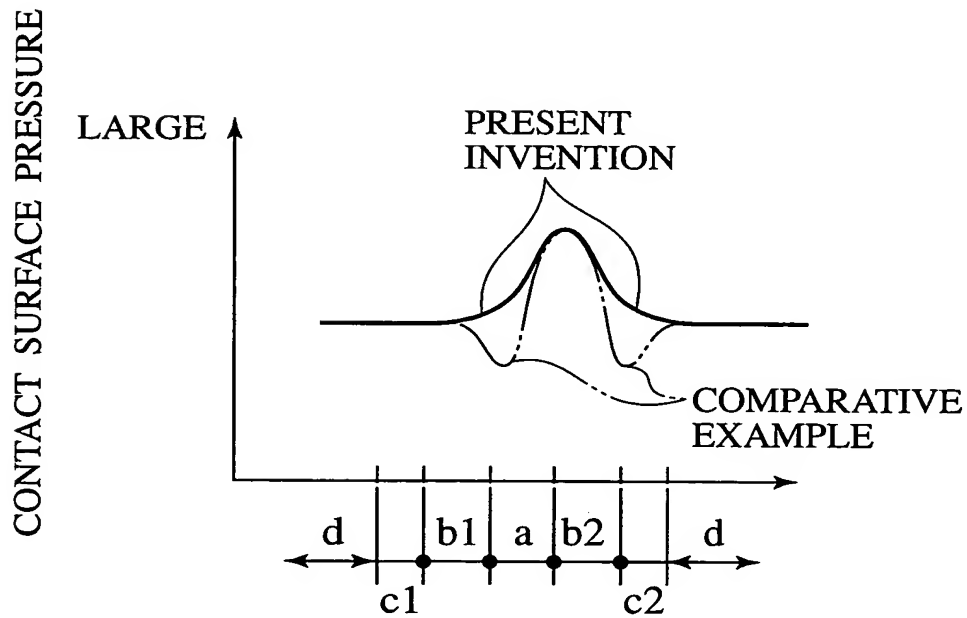


FIG.22B



22/22

FIG.23A

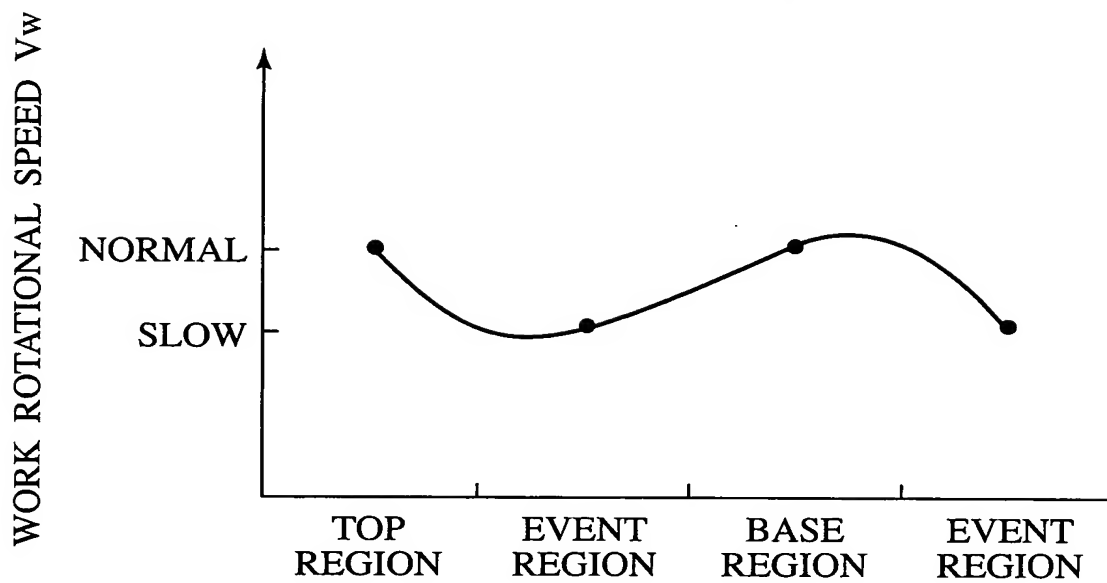


FIG.23B

